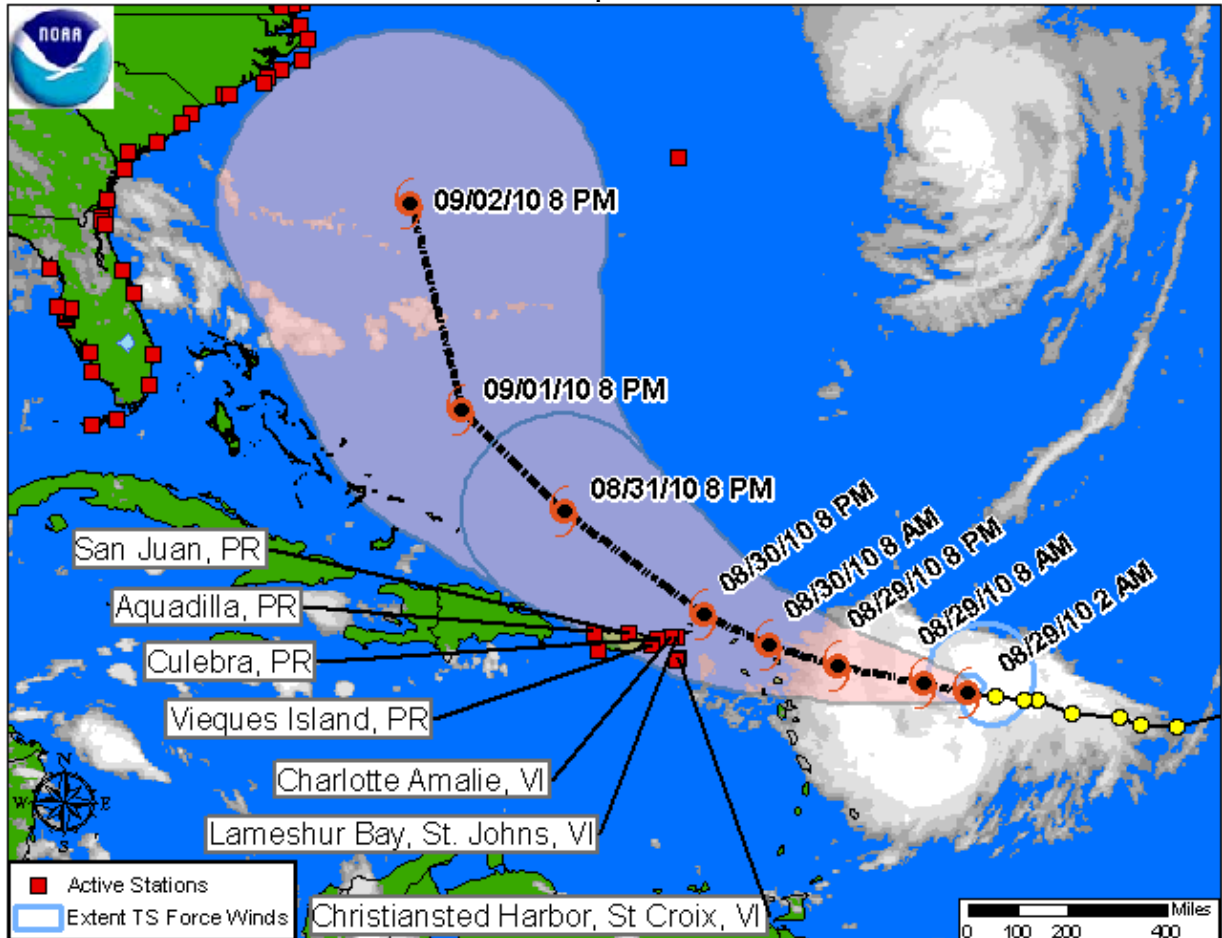




Tropical Storm EARL QuickLook
Posted: 06:00 EDT 08/29/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/29/2010 06:00 EDT, water levels across the U.S. Virgin Islands and Puerto Rico are about 0.4 to 0.5 feet above predictions.

Wind speeds are generally ranging from 5 to 10 kts with some gusts up to 22 kts at San Juan PR and 31 kts at Christiansted Harbor, St. Croix, USVI. Barometric pressure has leveled off and began to increase across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

CHRISTIANSTED HARBOR, ST CROIX, VI Next predicted high tides are 0.59 ft (0.18 m) at 08/29/2010 12:13 AST and 0.48 ft (0.15 m) at 08/29/2010 22:07 AST.

LAMESHUR BAY, ST. JOHN, VI Next predicted high tides are 0.66 ft (0.20 m) at 08/29/2010 13:20 AST and 0.45 ft (0.14 m) at 08/30/2010 00:14 AST.

CHARLOTTE AMALIE, VI Next predicted high tides are 0.78 ft (0.24 m) at 08/29/2010 13:30 AST and 0.82 ft (0.25 m) at 08/30/2010 14:50 AST.

CULEBRA, PR Next predicted high tides are 0.90 ft (0.27 m) at 08/29/2010 13:10 AST and 0.70 ft (0.21 m) at 08/30/2010 00:22 AST.

ESPERANZA, VIEQUES ISLAND, PR Next predicted high tides are 0.53 ft (0.16 m) at 08/29/2010 12:08 AST and 0.48 ft (0.15 m) at 08/29/2010 21:24 AST.

SAN JUAN, PR Next predicted high tides are 1.56 ft (0.48 m) at 08/29/2010 13:11 AST and 1.16 ft (0.35 m) at 08/30/2010 00:29 AST.

AQUADILLA, PR Next predicted high tides are 1.28 ft (0.39 m) at 08/29/2010 12:11 AST and 1.00 ft (0.30 m) at 08/30/2010 00:10 AST.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:MPM

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM EARL ADVISORY NUMBER 16

500 AM AST SUN AUG 29 2010

...EARL HEADED FOR THE NORTHERN LEEWARD ISLANDS...EXPECTED TO BECOME A HURRICANE LATER TODAY...

LOCATED NEAR LATITUDE 16.9 NORTH...LONGITUDE 56.9 WEST ABOUT 420 MI E OF THE NORTHERN LEEWARD ISLANDS

WATCHES AND WARNINGS

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WATCH IS IN EFFECT FOR...

*** U.S. VIRGIN ISLANDS**

*** PUERTO RICO INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES**

HURRICANE CONDITIONS ARE EXPECTED WITHIN THE WARNING AREA BEGINNING WITHIN 24 HOURS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA WITHIN THE NEXT 36 HOURS.

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 AM AST THE CENTER OF TROPICAL STORM EARL WAS LOCATED NEAR LATITUDE 16.9 NORTH...LONGITUDE 56.9 WEST ABOUT 420 MI E OF THE NORTHERN LEEWARD ISLANDS. EARL IS MOVING TOWARD THE WEST NEAR 18 MPH. A TURN TOWARD THE WEST-NORTHWEST WITH A GRADUAL DECREASE IN FORWARD SPEED IS EXPECTED IN THE NEXT 48 HOURS. ON THE FORECAST TRACK...THE CENTER OF EARL WILL PASS NEAR OR OVER THE NORTHERN LEEWARD ISLANDS SUNDAY NIGHT AND MONDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 65 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT 48 HOURS ...AND EARL IS EXPECTED TO BECOME A HURRICANE LATER TODAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 160 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 989 MB...29.21 INCHES.

HAZARDS AFFECTING LAND

STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS IN THE WARNING AREA NEAR AND TO THE RIGHT OF THE PATH OF THE CENTER OF EARL. THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES.

RAINFALL...EARL IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 3 TO 5 INCHES OVER MUCH OF THE NORTHERN LEEWARD ISLANDS...WITH POSSIBLE MAXIMUM ISOLATED AMOUNTS OF 8 INCHES.

FORECASTER BRENNAN

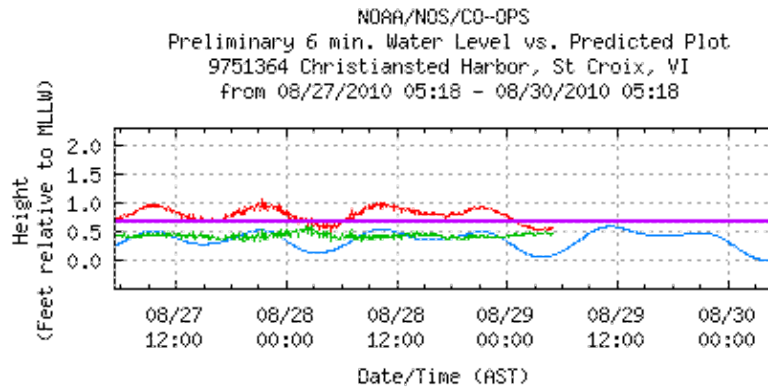
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Christiansted Harbor, St Croix - Water Level](#), [Christiansted Harbor, St Croix - Winds](#), [Christiansted Harbor, St Croix - Barometric](#), [Christiansted Harbor, St Croix - Air/Water Temp](#), [Lameshur Bay, St. John - Water Level](#), [Lameshur](#)

Tropical Storm EARL QuickLook, POSTED 06:00 EDT 08/29/2010

Bay, St. John - Air/Water Temp, Charlotte Amalie - Water Level, Charlotte Amalie - Winds, Charlotte Amalie - Barometric, Charlotte Amalie - Air/Water Temp, Culebra - Water Level, Culebra - Winds, Culebra - Barometric, Culebra - Air/Water Temp, Esperanza, Vieques Island - Water Level, Esperanza, Vieques Island - Winds, Esperanza, Vieques Island - Barometric, Esperanza, Vieques Island - Air/Water Temp, San Juan - Water Level, San Juan - Winds, San Juan - Barometric, San Juan - Air/Water Temp, Aguadilla - Water Level, Aguadilla - Barometric, Aguadilla - Air/Water Temp,

Christiansted Harbor, St Croix, VI - [Return to List](#)



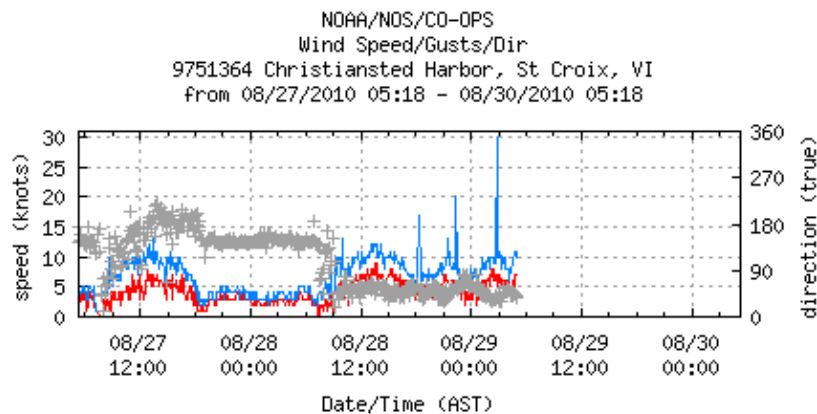
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/29/2010 05:00 (AST)

Relative to **MLLW**: **Observed: 0.57 ft. Predicted: 0.10 ft. Residual: 0.47 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.73 ft. above **MHHW**

Christiansted Harbor, St Croix, VI - [Return to List](#)

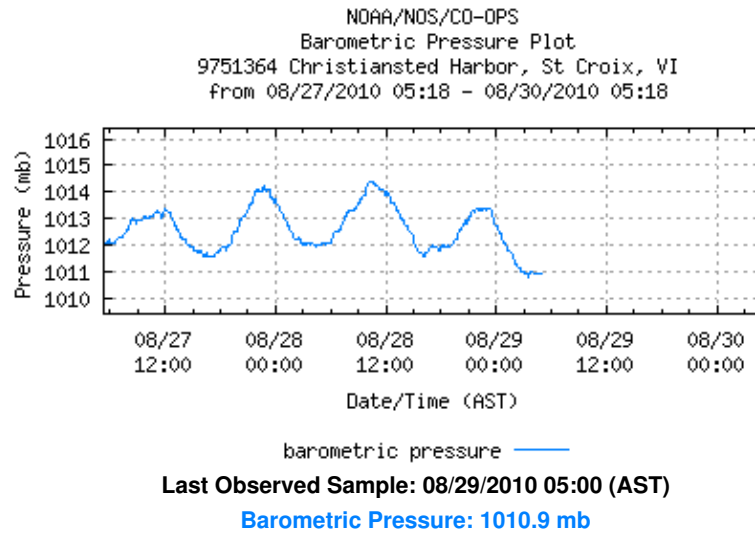


speed — gusts — direction +

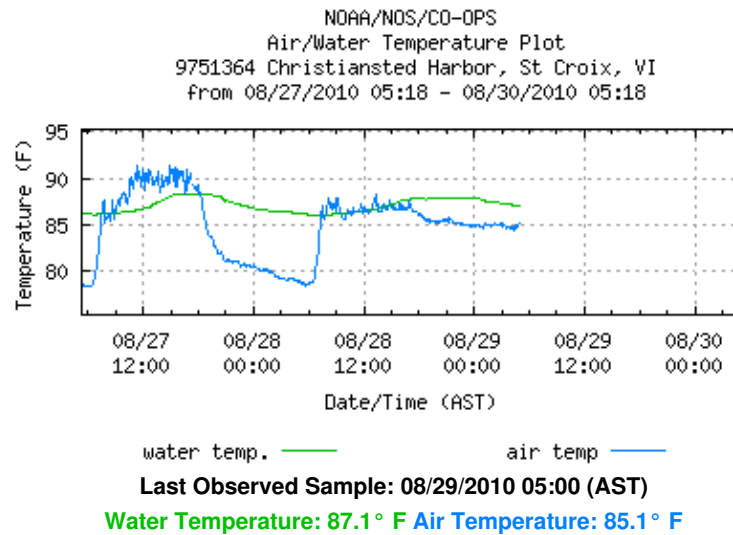
Last Observed Sample: 08/29/2010 05:00 (AST)

Wind Speed: 7 knots Gusts: 11 knots Direction: 042° T

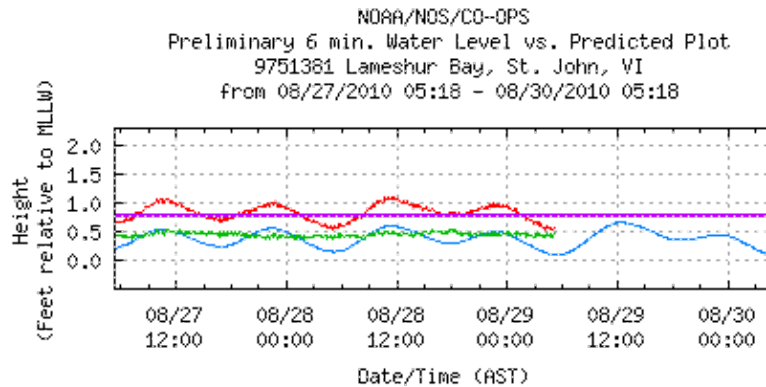
Christiansted Harbor, St Croix, VI - [Return to List](#)



Christiansted Harbor, St Croix, VI - [Return to List](#)



Lameshur Bay, St. John, VI - [Return to List](#)

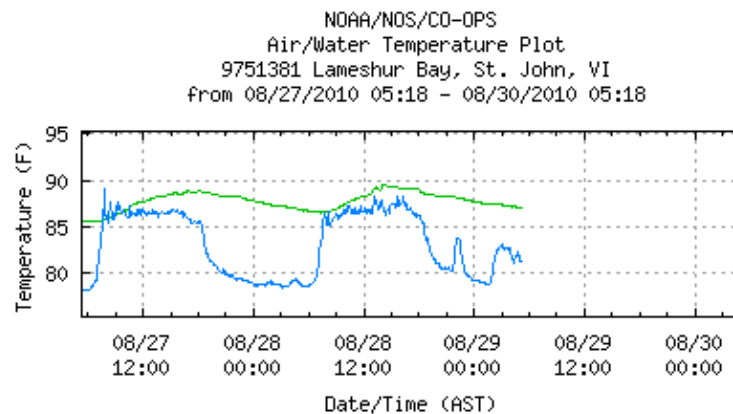


Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.58 ft. Predicted: 0.10 ft. Residual: 0.48 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.83 ft. above **MHHW**

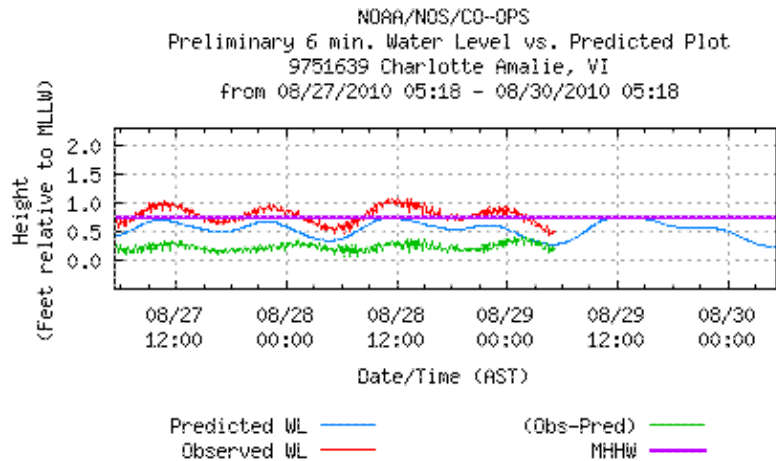
Lameshur Bay, St. John, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 87.1° F Air Temperature: 81.3° F

Charlotte Amalie, VI - [Return to List](#)

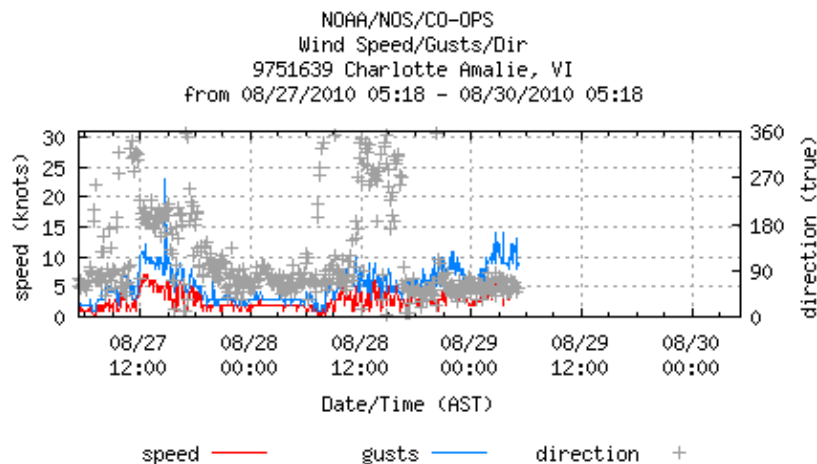


Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.50 ft. Predicted: 0.29 ft. Residual: 0.21 ft.**

Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above **MHHW**

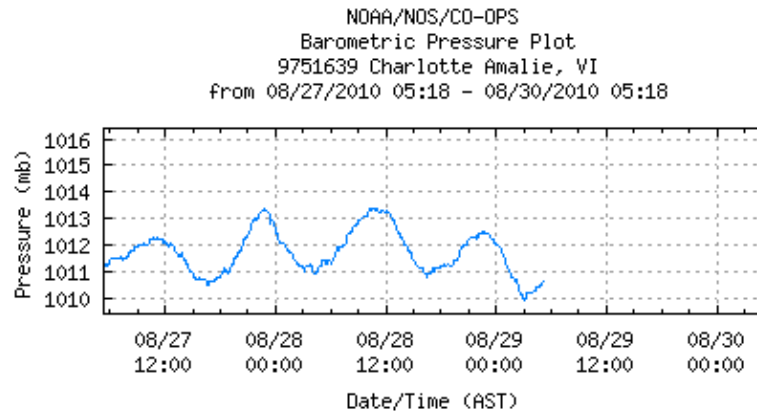
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Wind Speed: 5 knots Gusts: 9 knots Direction: 057° T

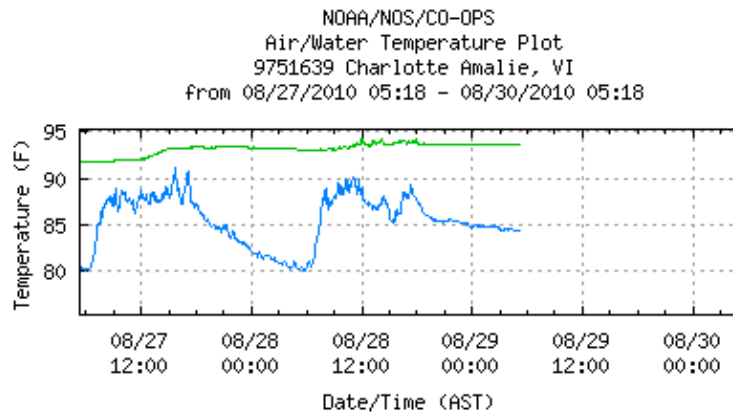
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Barometric Pressure: 1010.6 mb

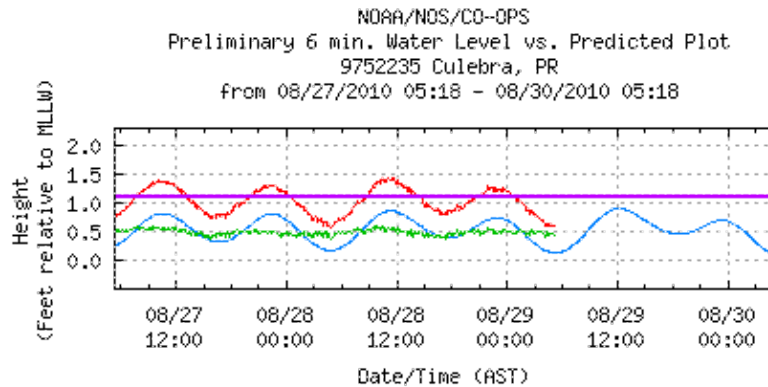
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 93.6° F Air Temperature: 84.3° F

Culebra, PR - [Return to List](#)

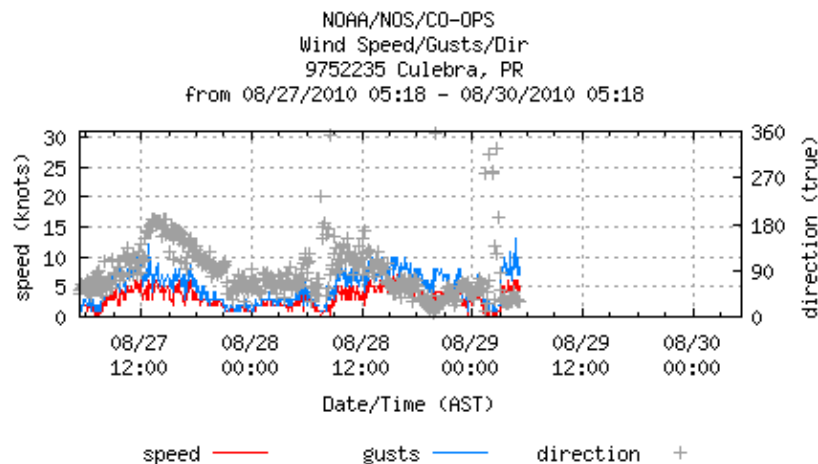


Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.59 ft.** **Predicted: 0.14 ft.** **Residual: 0.45 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.86 ft. above **MHHW**

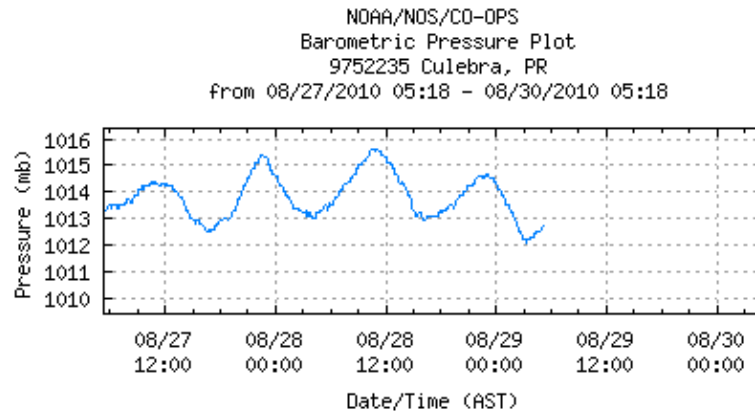
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Wind Speed: 4 knots **Gusts: 7 knots** **Direction: 030° T**

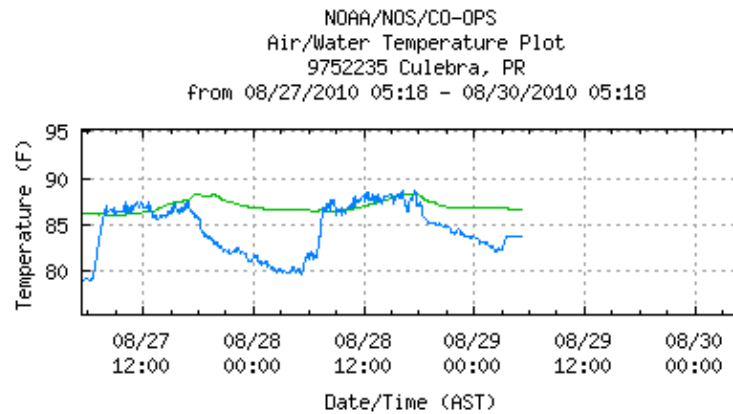
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Barometric Pressure: 1012.7 mb

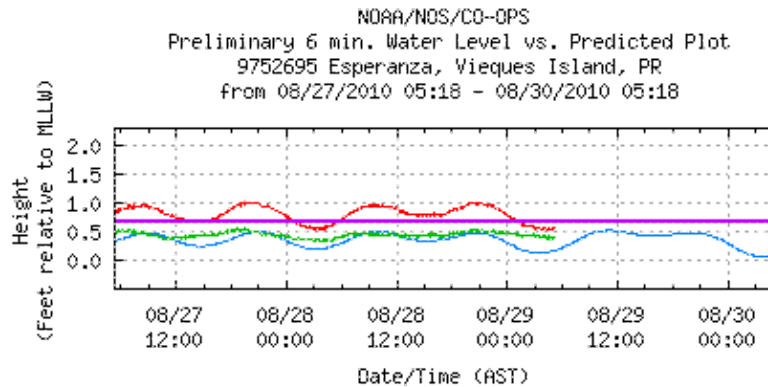
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 86.7° F Air Temperature: 83.7° F

Esperanza, Vieques Island, PR - [Return to List](#)



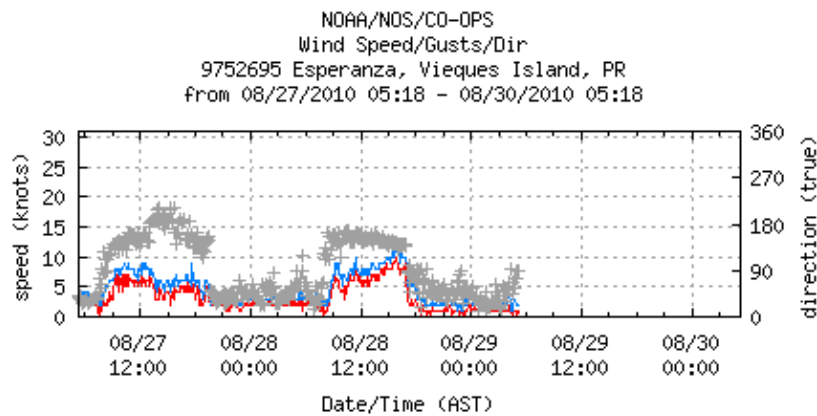
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.58 ft. Predicted: 0.17 ft. Residual: 0.41 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above **MHHW**

Esperanza, Vieques Island, PR - [Return to List](#)

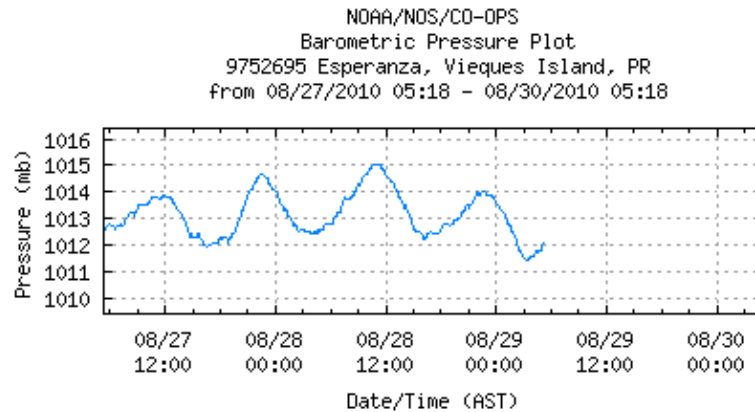


speed — gusts — direction +

Last Observed Sample: 08/29/2010 05:06 (AST)

Wind Speed: 1 knots Gusts: 2 knots Direction: 088° T

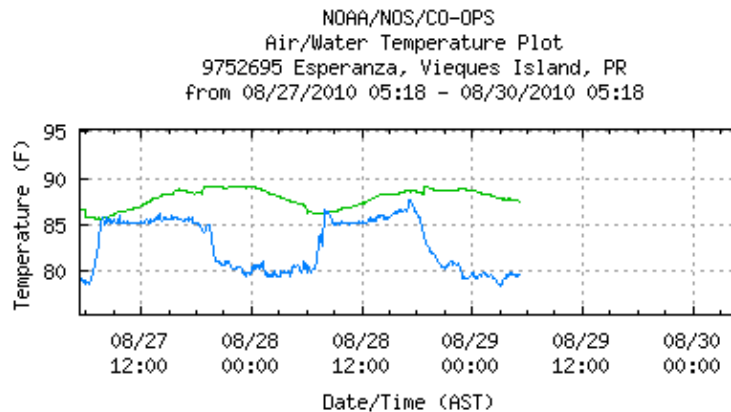
Esperanza, Vieques Island, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Barometric Pressure: 1012.1 mb

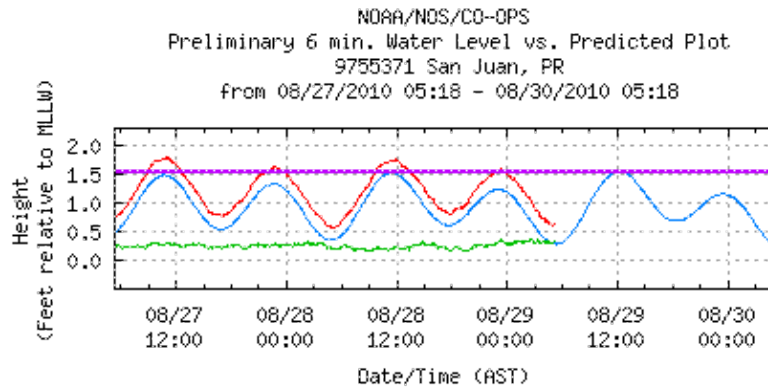
Esperanza, Vieques Island, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 87.4° F Air Temperature: 79.7° F

San Juan, PR - [Return to List](#)



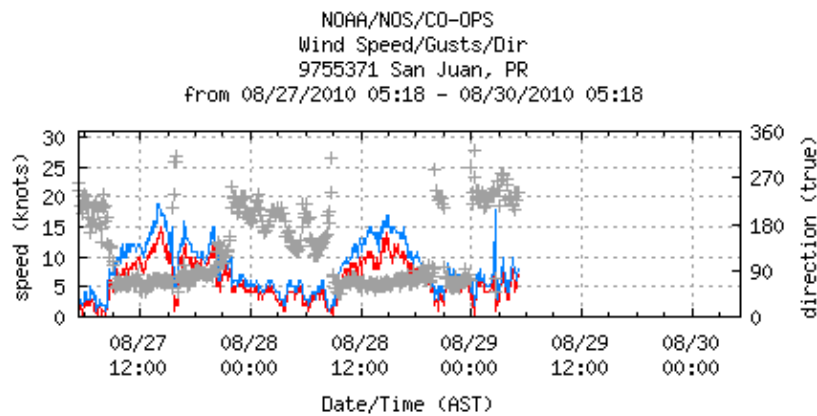
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.65 ft. Predicted: 0.30 ft. Residual: 0.35 ft.**

Historical Maximum Water Level: Sep 21 1998, 1.21 ft. above **MHHW**

San Juan, PR - [Return to List](#)

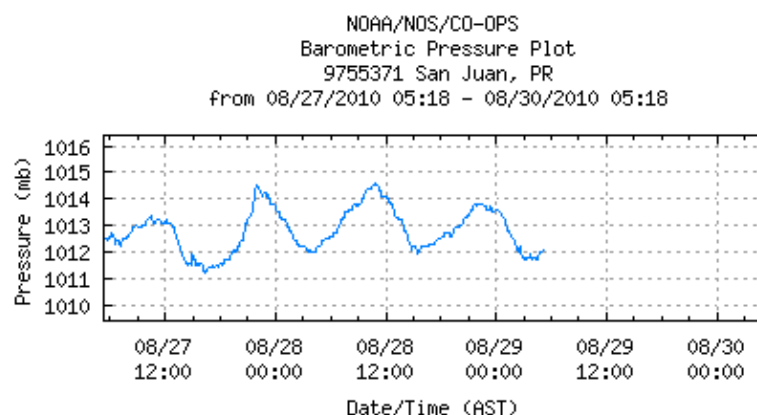


speed — gusts — direction +

Last Observed Sample: 08/29/2010 05:06 (AST)

Wind Speed: 7 knots Gusts: 8 knots Direction: 240° T

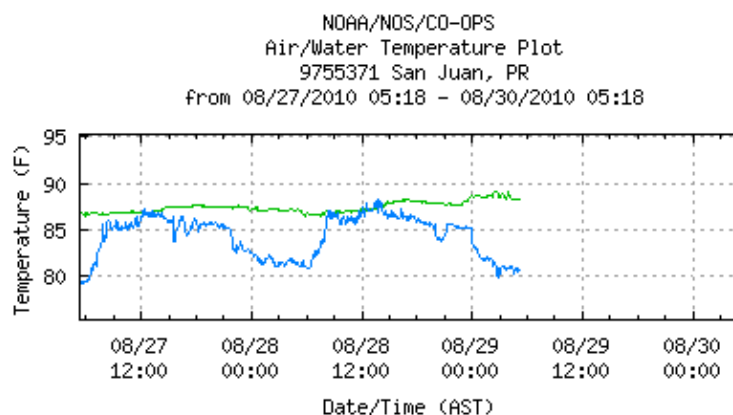
San Juan, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Barometric Pressure: 1012.1 mb

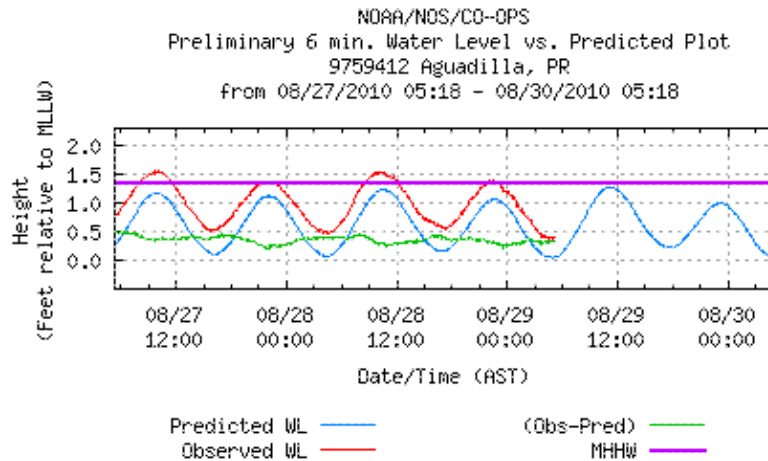
San Juan, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 88.2° F Air Temperature: 80.6° F

Aguadilla, PR - [Return to List](#)

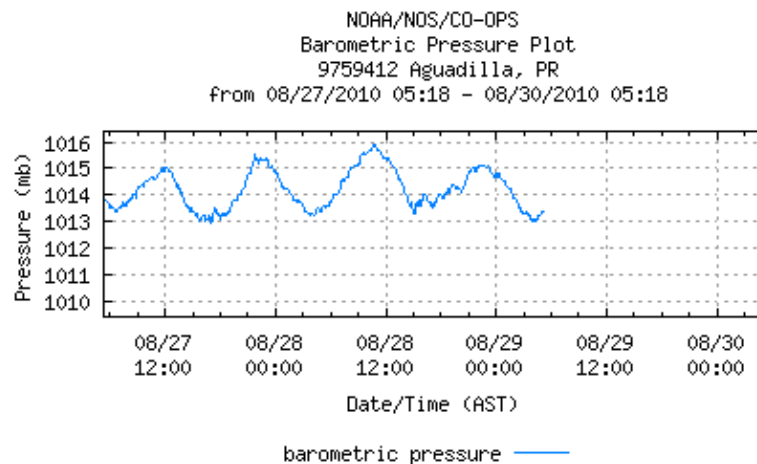


Last Observed Sample: 08/29/2010 05:06 (AST)

Relative to **MLLW**: **Observed: 0.40 ft. Predicted: 0.06 ft. Residual: 0.34 ft.**

Historical Maximum Water Level: Oct 28 2007, 0.95 ft. above **MHHW**

Aguadilla, PR - [Return to List](#)

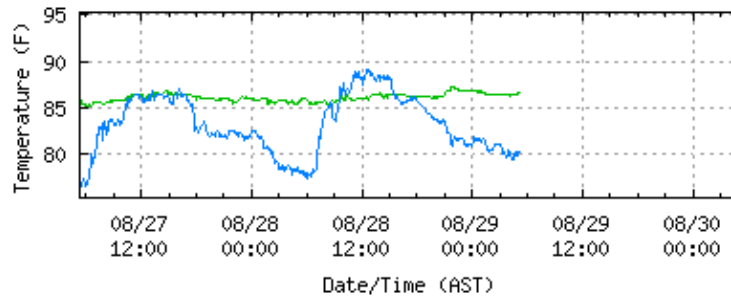


Last Observed Sample: 08/29/2010 05:06 (AST)

Barometric Pressure: 1013.4 mb

Aguadilla, PR - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
9759412 Aguadilla, PR
from 08/27/2010 05:18 - 08/30/2010 05:18



water temp. — air temp —

Last Observed Sample: 08/29/2010 05:06 (AST)

Water Temperature: 86.7° F Air Temperature: 80.2° F

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce